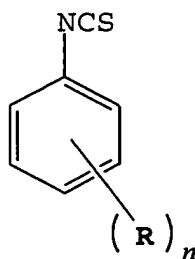


WHAT IS CLAIMED IS:

1. A compound represented by the formula



where  $n = 1$  or  $2$ ;

**R** is  $\text{-NHC(O)-O-M}$ ,  $\text{-NCO}$  or  $\text{-C(O)N}_3$ ;

**M** is a reacted alcohol-containing macromolecule; and

**R** is in a *para*-, *meta*- or *di-meta* position relative to  $\text{-NCS}$ .

2. The compound according to Claim 1, wherein **M** is a reacted polyethylene glycol or polysaccharide.

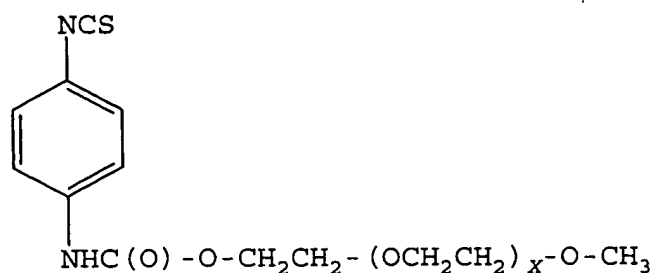
3. The compound according to Claim 2 wherein the polysaccharide is dextran, cellulose, starch or agarose.

4. The compound according to Claim 1 where **R** is  $\text{-NCO}$ .

5. The compound according to Claim 1 where **R** is  $\text{-C(O)N}_3$ .

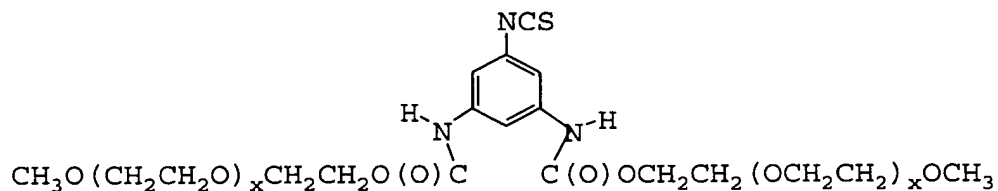
6. The compound according to Claim 1 where **R** is  $\text{-NHC(O)-O-M}$ .

7. The compound according to Claim 6 represented by the formula



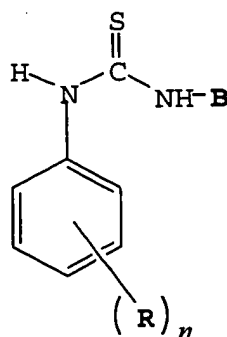
wherein **M** is the reacted methoxy polyethylene glycol  $\text{-CH}_2\text{CH}_2\text{-(OCH}_2\text{CH}_2\text{)}_x\text{-O-CH}_3$ ; and  $x$  is an average value that is about 5 to about 500.

8. The compound according to claim 6,



wherein said compound is represented by the formula above and  $x$  is an average value that is about 5 to about 500.

9. A compound represented by the formula



where **B** is a reacted amino group-containing biomolecule;

**R** is -NHC(O)-O-**M**;

where  $n = 1$  or  $2$ ;

**M** is a reacted alcohol-containing macromolecule; and

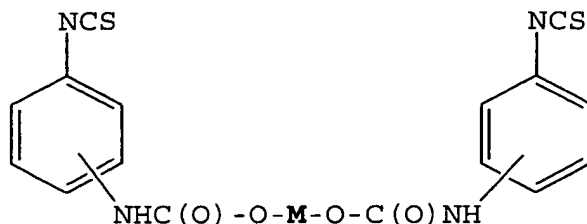
-**R** is para, meta or di-meta relative to -NHC(S)-NH-**B**.

10. The compound according to claim 9 where **M** is methoxy polyethylene glycol.

11. The compound according to Claim 9 wherein said macromolecule **M** is a hydroxy-containing surface.

12. The compound according to Claim 9 wherein said biomolecule **B** is streptavidin.

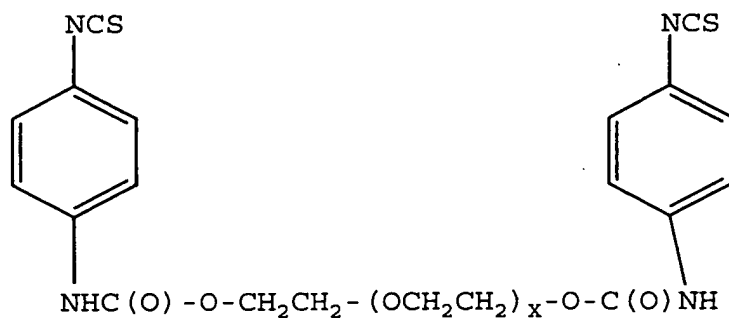
13. The compound represented by the formula



where **M** is a reacted alcohol-containing macromolecule.

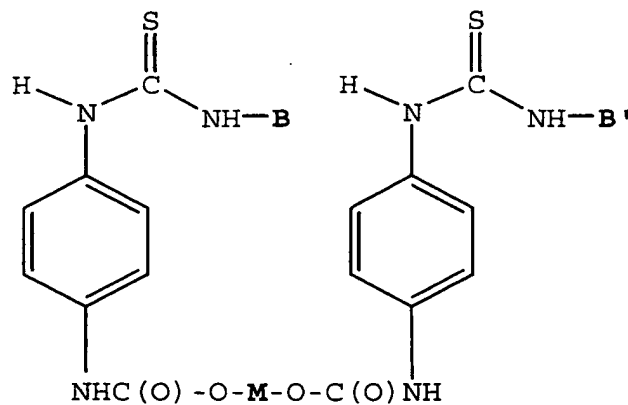
14. The compound according to claim 13 where **M** is polyethylene glycol.

15. The compound according to claim 14 represented by the chemical formula



wherein  $x$  is an average value that is about 5 to about 500.

16. A compound represented by the chemical formula

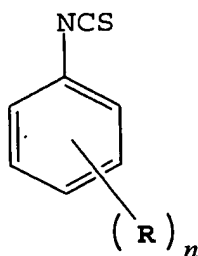


where **B** and **B'** are the same or different reacted amino group-containing biomolecules, and **M** is a reacted alcohol-containing macromolecule.

17. The compound according to claim 16  
where **M** is polyethylene glycol.

18. A method for making a macromolecule **M**  
that is linked to a biomolecule **B** comprising the  
following steps:

(a) providing a linking reagent  
represented by the formula



where  $n = 1$  or  $2$ ;

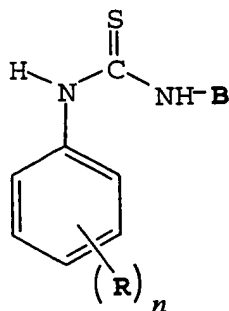
**R** is  $-\text{NHC}(\text{O})-\text{O}-\text{M}$ ;

**M** is a reacted alcohol-containing  
macromolecule; and

**R** is in a *para*-, *meta*- or *di-meta*  
position relative to  $-\text{NCS}$ ;

(b) providing an amine-containing  
biomolecule **B** in an admixture with the linking  
reagent provided in step (a) to form a linking  
mixture; and

(c) maintaining said linking mixture for a  
time period sufficient to form a urethane compound  
represented by the chemical formula



where  $n = 1$  or  $2$ ;

**R** is  $-\text{NHC}(\text{O})-\text{O}-\text{M}$ ;

**M** is a reacted alcohol-containing macromolecule; and

**R** is in a *para*-, *meta*- or *di-meta* position relative to  $-\text{N}(\text{H})\text{C}(\text{S})\text{N}(\text{H})-\text{B}$

thereby making a macromolecule **M** that is linked to a biomolecule **B**.

19. The method according to Claim 18 wherein said macromolecule **M** is a polyethylene glycol.

20. The method according to Claim 18 wherein said biomolecule **B** is a polypeptide.